

The New Pitman-Moore.

Now the nation's fastest growing
animal health and nutrition company.

*Obsolete per
Dave Morris
1-11-91*



PITMAN-MOORE

A growing source for you.

International Minerals & Chemical Corporation has ushered in a new commitment to animal agriculture and the care of companion animals with the formation of the new Pitman-Moore, Inc.

By combining the four very successful businesses that previously made up IMC's Animal Product Group, the new Pitman-Moore, Inc. was created as a wholly-owned subsidiary of IMC. Mallinckrodt, Inc. and IMC Fertilizer, Inc. make up the other major IMC core businesses.

IMC's Animal Products Group was primarily a feed phosphate and potassium product supplier until 1975 when two growth promotion products—RALGRO® growth-promoting beef cattle implants and Baciferm®, a zinc bacitracin product—were added through acquisition.

In 1984, IMC purchased Sterwin Laboratories and entered the poultry vaccine business and has greatly expanded Sterwin's product line and presence in the poultry health market.

With the recent acquisition of Pitman-Moore and its broad line of biologicals, pharmaceuticals, diagnostic and surgical products, IMC positioned itself firmly as a leader in both the large and small animal care industries. From this most recent acquisition the new Pitman-Moore, Inc. was born, with a combined line of more than 400 animal health and nutrition products.

To the livestock and poultry producer, pet owner and veterinarian the new Pitman-Moore represents a growing, quality source for almost all animal care needs. Much broader research capabilities, together with additional technical and sales representation, ensure new and enhanced products and services for the future.

The recent decision to build a \$50 million production facility to manufacture somatotropin (PST), a porcine growth promoter, exemplifies the type of commitment the new Pitman-Moore brings to animal agriculture. There are three research facilities located in Northbrook, Illinois, Terre Haute, Indiana and Washington Crossing, New Jersey—all committed to product research and development for improving animal nutrition and health.

The new Pitman-Moore is positioned for rapid growth—well on its way to becoming the number one animal health and nutrition company in the world.



PITMAN-MOORE



PITMAN

Over-The-Counter Animal Health Products

For the livestock producer, the new Pitman-Moore is a rapidly growing source for animal health and growth-promoting products.

The new Pitman-Moore's over-the-counter animal health products include:

RALGRO[®] growth-promoting beef cattle implants—8 out of 10 cattlemen who implant, use RALGRO for extra weight gains and improved feed efficiency.

TOTALON[™] topical cattle dewormer kills the ten cattle worms of economic importance—just pour or squirt it on.

LEVASOLE[®] cattle anthelmintic—a widely-used cattle dewormer that's available in injectable, drench, bolus or gel form.

TELMIN[®] equine wormer—broad spectrum protection, 92-100% effective against major internal parasites.

EQUINE BIOLOGICALS—a high quality, efficacious line.

Plus, a wide line of large animal pharmaceuticals and biologicals.

Ask your Pitman-Moore sales representative for more information on the full line of animal care products or write or call Pitman-Moore, Inc., P.O. Box 207, Terre Haute, IN 47808; phone: 1-800-457-0871.

Ethical Animal Care

The new Pitman-Moore has a 90-year tradition of providing the veterinarian with quality animal care products. For large and small animal practitioners alike, the new Pitman-Moore is a growing source for top quality animal care products and services.

The growing Pitman-Moore ethical products line includes:

Surgicals and pharmaceuticals, biologicals, diagnostic products and equine products.

Surgicals JOHNSON and JOHNSON
Wound Care and Orthopedic Products
ETHICON® Wound Closure Products
SURGIKOS® Surgery Room Products
CRITIKON® Vein/Artery Access Products

Biologicals QUANTUM® Dog Vaccines
IMRAB® Rabies Vaccine
SWIVAX® 8, TITAN® 3/D and PORCIMUNE® Swine Vaccines
TRIPLE E® FT Equine Vaccines

Pharmaceuticals METOFANE®, OXYMORPHONE® Anesthesia
TELMINTIC® Small Animal Anthelmintic
TELMIN® Equine Wormer
LEVASOLE®
TOTALON®
SPRECTO® Insecticide Line

Diagnostics LEUKASSAY® FII Feline Leukemia Virus Test
D-TEC EIA Equine Infectious Anemia Antibody Test

And many other large and small animal products.

For more information on the complete Pitman-Moore ethical products line talk with your sales representative or write or call Pitman Moore, Inc., Washington Crossing, NJ 08560; phone: (Eastern U.S.) 1-800-241-3166, (Western U.S.) 1-800-525-9480.

Imrab is a registered trademark of Institut Mérieux.
Triple E FT is a registered trademark of Connaught Animal Health, Inc.

Sterwin Laboratories

When IMC bought Sterwin Laboratories from Sterling Drug in April of 1984, it marked a turnaround for the long time manufacturer and marketer of poultry vaccines. Since the acquisition, Sterwin has:

- licensed the only coccidiosis vaccine for turkeys (COCCIVAC-T®)
- constructed a new production facility for COCCIVAC (for chickens) and COCCIVAC-T in Millsboro, Delaware
- brought the marketing of IMC's feed grade bacitracin product, BACIFERM®, under Sterwin's direction
- initiated enzyme-linked immunosorbent assay (ELISA) testing for customers through an independent laboratory
- introduced BURSA VAC®3, and BURSA VAC®4, two new bursal disease vaccines
- acquired machine business from Agri-Bio and now manufactures BIOBEAKER™ and BIOJECTOR™

Other Sterwin Laboratories' products include:

Poultry biologicals, sanitation products and other hatchery vaccination equipment.

For more information on the Sterwin Laboratories poultry care product line talk to your Sterwin sales representative or write or call Sterwin Laboratories, Pitman-Moore, Inc., P.O. Box 537, Millsboro, Delaware 19966; phone: 1-800-633-0462.

Feed Ingredients

The new Pitman-Moore is the nation's leading supplier of feed grade phosphate and potassium products to livestock and poultry feed manufacturers. The company has access to the largest phosphate reserves in the world, with yearly phosphate ore production reaching 13 million tons. And across the country, 27 warehouse locations ensure customers delivery where and when product is needed.

The new Pitman-Moore Feed Ingredient product line includes:

Biofos[®] Mono/dicalcium phosphate offers a high phosphorus content plus a narrow Ca:P ratio.

Dynafos[®] Di/monocalcium phosphate is an easy-to-handle, reliable phosphorus source.

Multifos[®] Tricalcium phosphate is perfect for formulating high energy and optimum density poultry feeds which benefit from the resulting high biological availability: 100-105.

Monofos[®] Monoammonium phosphate is a high B.V. phosphate for low-calcium feed products.

Liquifos[®] Phosphoric acid is an economical phosphorous source for liquid protein supplements.

Dynamate[®] Double sulfate of potassium and magnesium is a slowly soluble feed ingredient that is more palatable than some individual magnesium or sulfur compounds.

Dyna-K[®] A rich source of highly available potassium is an ideal supplement where forages and oil meals have been replaced with low-potassium ingredients.

K-S[®] A single source for both potassium and sulfur is used primarily as an aid to ruminant feed formulators.

Alkaten[®] Sodium sesquicarbonate is an effective, free-flowing rumen buffer. (Distributed east of the Rockies)

For more information on these fine products contact your Pitman-Moore Feed Ingredient representative or write or call Pitman-Moore, Inc., 421 East Hawley Street, Mundelein, IL 60060; phone: (312) 566-2600.

Feed Ingredients

Pitman-Moore, Inc.
421 East Hawley Street
Mundelein, IL 60060
(312) 566-2600

Over-the-Counter Animal Health Products

Pitman-Moore, Inc.
P.O. Box 207
Terre Haute, IN 47808
1-800-457-0871

Ethical Animal Care

Pitman-Moore, Inc.
P.O. Box 344
Washington Crossing, NJ 08560
Eastern: 1-800-241-3166
Western: 1-800-525-9480

Sterwin Laboratories

Pitman-Moore, Inc.
P.O. Box 537
Millsboro, DE 19966
1-800-633-0462



PITMAN-MOORE



Pitman-Moore



A N O V E R V I E W

CURRENT MARKET POSITIONS

<i>Mineral feed supplements—Monofos®</i>	Leader
Biofos® Multifos® Dynafos® Dynamate®	Leader
<i>Growth promotion—Ralgro®</i>	Leader
<i>Diagnostics—Leukassay B®</i>	Emerging
<i>Anthelmintics—Levasole®, Totalon®</i>	Significant
<i>Poultry vaccines—Bursa-Vac®, Coccivac®</i>	Significant
<i>Vaccines—Quantum® 6, FVR® C-P</i>	Significant
<i>Diagnostics—D-Tec® CB, UNI-TEC™</i>	Leader
<i>Surgicals—Ethicon/Johnson & Johnson product line</i>	Leader
<i>Pharmaceuticals—Telmin®, Conofite®</i>	Emerging
<i>Anesthetics—Metofane®</i>	Leader
<i>Anesthetics—Fluothane™, Rapinovel™</i>	Significant
<i>Anthelmintics—Autoworm™, Systamex™</i>	Significant
<i>Antibacterials—Tribrissen®</i>	Significant
<i>Antiprotozoals—Clexon™, Imizol®</i>	Significant
<i>Insecticides—Clout™, Grenade™</i>	Significant
<i>Prostaglandins—Estrumate®</i>	Significant
<i>Vaccines—Footvax®, Epivax™</i>	Significant
<i>Foot & mouth disease vaccines</i>	Significant
<i>Dairy hygiene, antiseptics and disinfectants—Coopercare™, Hibitex™</i>	Significant

STRONG BRAND FRANCHISES In Major Markets

Autoworm™ (anthelmintic agent)	Grenade® (ectoparasiticide)
Biofos® (animal feed supplement)	Hibitex™ (udder hygiene product, Imperial Chemical Inds.)
Bursa-Vac® (poultry vaccine)	Imizol® (antiprotozoal agent)
Clexon™ (veterinary medicament)	Leukassay B® (leukemia virus test kit)
Clout™ (pour-on parasiticide)	Levasole® (anthelmintic agent)
Coccivac® (poultry vaccine)	Metofane® (anesthetic)
Conofite® (antifungal agent)	Monofos® (animal feed supplement)
Coopercare™ (The Wellcome Foundation Ltd.)	Multifos® (animal feed supplement)
D-Tec® CB (diagnostic test kit)	Quantum® 6 (canine vaccine)
Dynafos® (animal feed supplement)	Ralgro® (anabolic agent)
Dynamate, Dyna-K (animal feed supplements)	Rapinovel™ (small animal anesthetic)
Epivax® (canine vaccine, The Wellcome Foundation Ltd.)	Systamex® (anthelmintic agent)
Estrumate® (prostaglandin preparation)	Syntex (USA Inc.)
Ethicon/Johnson & Johnson product line	Telmin® (anthelmintic agent)
Footvax® (footrot vaccine)	Totalon® (anthelmintic agent, Janssen Pharmaceutica)
FVR® C-P (feline rhinotracheitis vaccine)	Tribrissen® (antibacterial agent)
	UNI-TEC™ (diagnostic reagent)

PRODUCTS: *Filling Customer Needs*

Pitman-Moore is a major force in three product areas: parasiticides, vaccines and pharmaceuticals. One of the most important pharmaceutical accomplishments was the development of foot and mouth disease (FMD) vaccines for pigs, cattle, buffalo, sheep and goats. Today, the company's FMD vaccine facility at Pirbright, Surrey, England, is the only commercial laboratory in the world licensed to work on all seven major FMD types. Additionally, Pitman-Moore has an extensive range of antibacterials for livestock and companion animals. Another promising product area is the expanding line of growth enhancers for cattle, pigs and poultry.

Pitman-Moore is a worldwide marketer and seller of a broad line of products for the major food animal species. The major portion of the food animal business is in the cattle segment. One key product is Ralgro® a growth-promoting implant. Another unique product is Totalon® a pour-on cattle dewormer. Other products include a full line of swine and equine biologicals and anthelmintic products. The company, through its wholly owned subsidiary, Sterwin Laboratories, Inc., is a producer and marketer of poultry biologicals (vaccines) and vaccinating equipment.

Pitman-Moore is one of the larger marketers of products to the domestic companion animal segment. It markets a broad line of products directly to veterinarians and has a strong presence in surgicals, diagnostics, biologicals and anesthesia pharmaceuticals.

The company's Feed Ingredients products consist of various feed supplements that include phosphorus or potassium to provide the required amounts of these two elements to all classes of livestock and poultry.

RESEARCH: *Market Driven*

Pitman-Moore performs applied research directed at development of new products, development of new uses for existing products and improvement of existing products and processes. The company's research and development programs focus on four areas: animal nutrition (such as mineral feed supplements and vitamins), disease prevention, diagnosis and treatment of disease, and growth promotion. To supplement its own research, Pitman-Moore has technical agreements with companies involved in the health care and biotechnology fields. Over 350 employees at major locations around the world are dedicated to research aimed at improving the health and growth of livestock and companion animals.

HUMAN RESOURCES:

Today, Pitman-Moore is the result of the merging of many corporate cultures into a leaner, quicker, market driven organization that recognizes the importance of every employee's contribution to improving company performance. Although employee programs vary from nation to nation, the concept is the same: employees are rewarded based on performance, both in pay and in opportunities for advancement.

EMPLOYEE STATISTICS

Pitman-Moore—North America	822 persons
Pitman-Moore—Asia	147 persons
Pitman-Moore—Europe	900 persons
Pitman-Moore—Feed Ingredients	22 persons
Pitman-Moore—Australia/New Zealand . . .	400 persons
Pitman-Moore—Latin America	1000 persons
Corporate	365 persons
Employees with college degrees	40%+
Employees with advanced degrees	12%+

PRODUCTION:

Twenty-nine Pitman-Moore facilities around the world produce over 1000 products. The multiple production locations allow true global flexibility in terms of maintaining the highest possible quality and lowest manufacturing cost. Corporate resources ensure the ability to keep manufacturing at a state-of-the-art level.

PITMAN-MOORE MANUFACTURING SITES:

North America

Terre Haute, Indiana
Kansas City, Kansas
Baton Rouge, Louisiana
Millsboro, Delaware
Mulberry, Florida
Carlsbad, New Mexico
Ajax, Ontario, Canada

Europe

Kelvindale, Scotland
Bray, Ireland
Pirbright, U.K.
Friesoythe, Germany
Burgwedel, Germany
San Bonifacio, Italy
Meaux, France

Australia/New Zealand

Cabarita, Australia
Silverwater, Australia
Townsville, Australia
Villawood, Australia
Otohuu, New Zealand
Upper Hutt, New Zealand

Latin America

Buenos Aires, Argentina
Sao Paulo, Brasil
Cali, Colombia
Asunción, Paraguay
Montevideo, Uruguay
Valencia, Venezuela
Mexico City, Mexico

Asia

Petaling Jaya, Malaysia
Manila, Philippines
Ta Yuan Tao Yuan, Taiwan

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O U R V I S I O N

*W*e will be the leading animal health care, productivity, and nutrition company throughout the world.

*W*e are dedicated to the fulfillment of our customers' needs.

*W*e are sensitive and responsive to our people, our community, and our environment, wherever we operate.

Together We Will Prosper



Pitman-Moore

Corporate Headquarters

Pitman-Moore, Inc.
One Conway Park
100 Field Drive
Lake Forest, IL 60045
U.S.A.
Phone: (708) 615-3700

General Offices

Pitman-Moore, Inc.
421 East Hawley Street
Mundelein, IL 60060
U.S.A.
Phone: (708) 949-3300

Pitman-Moore, Inc.

Today...



Mallinckrodt

Veterinary, Inc.

Tomorrow.

Veterinarians and producers around the world rely on our products when it comes to caring for animals. And for good reason. Since 1843, when William Cooper formed his own company in



England to produce the first sheep dip for the control of lice, the company has been building a tradition of providing innovative products and incomparable services. Over the past 150 years, respected names in animal health — companies like Pitman-Moore, Sterwin, Glaxo, ICI/Wellcome and IMC — have blended their expertise with the original Coopers to create one of the world's leading animal health and nutrition companies.

MALLINCKRODT
VETERINARY

Our reach:

global. The company has a presence in every major animal health market in the world, our products are sold in more than 100 countries and we employ more than 2,000 people around the globe.

Our product line:

one of the most comprehensive in the industry. Biologicals, productivity enhancers, parasiticides, feed ingredients, antimicrobials and veterinary specialties meet a broad range of customer needs.

Our pledge:

to enrich the quality of human life by adding value to animal life, both as a safer and more abundant food source and as healthy companions.

Today, that company is Pitman-Moore. Proud of our heritage, but prouder still of our mission: to provide the highest quality products and services to our customers.

Tomorrow, our company will be known as Mallinckrodt Veterinary, Inc., a unit of the newly named Mallinckrodt Group Inc., (formerly IMCERA) that includes Mallinckrodt Medical and Mallinckrodt Chemical. The Mallinckrodt name is steeped in a 127-year tradition of excellence closely associated with

quality, service and innovation in human health care and specialty chemicals.

As Mallinckrodt Veterinary we remain committed to delivering our promise to provide the same high-quality products, services and overall customer enthusiasm expected of us.



We recognize that industry leadership requires individual initiative as well as global teamwork. And that customer needs fulfilled tomorrow must be anticipated today.

We are dedicated to earning our outstanding reputation every day. We continue to improve the way we do business to underscore the value we place on meeting our customers' needs in an ever-changing environment.

We are focusing on biological product development and manufacturing. Two newly built plants — an anaerobe bacterium facility in Upper Hutt, New Zealand, and an aerobic bacterium and viral vaccine plant in Burgwedel, Germany — will be joined in 1997 by a third biologicals production site in Raleigh, North Carolina. The three plants will enable the company to supply biological products to customers worldwide, while setting the standard for regulatory compliance.

We have opened a state-of-the-art Science & Tech-

nology Center near the company's headquarters in Mundelein, Illinois.

Experienced researchers



and industry experts work in

concert with those who know our customers best — our sales force and our marketing specialists. Their joint efforts are geared toward understanding customers' needs, then developing products accordingly.

We continue to strengthen our global sales force and improve their technical skills training so they can better reach and serve our customers. We are also expanding our technical field support.

In short, we are building on our past to launch a new and revitalized company with a dynamic future.

OUR PRODUCTS

Customers will continue to find their favorite products available from Mallinckrodt Veterinary, Inc. Our relationships with customers are strengthened by providing quality products and unparalleled service.

The range of products we offer is significant, and will continue to be enhanced as we develop new, innovative products for the prevention and treatment of diseases in animals. We will continue to focus on products that provide the greatest benefits to animals and the veterinarians and producers who care for them.

BIOLOGICALS — Mallinckrodt Veterinary,



Inc., will continue to produce and distribute a broad range of biological products for cattle, sheep,

poultry, swine and companion animals, and provide products such as PARACOX™, an anticoccidial vaccine for poultry; LEPTAVOID® H, a leptospirosis vaccine for dairy cattle; EQUIP®, an influenza vaccine for horses; RABDOMUN™, a respected rabies vaccine; and COOPERVAC™, one of the leading FMD vaccines.



PHARMACEUTICALS — Pitman-Moore's antimicrobial products such as TRIBRISSEN®, TRIVETRIN®

and the unique ZAQUILAN™ help protect livestock and pets against systemic infections. Other products such as CEPRAVIN™ and SPECTRAZOL™ are widely used by dairy farmers to prevent and treat mastitis.

A variety of growth promotants and nutritional is available to help improve the weight gain and feed conversion of livestock for meat and poultry producers. We take pride in offering top-selling products such as RALGRO® which helps boost weight gain performance in beef cattle. CLINACOX™, an innovative feed additive, is being developed for use in treating coccidia-related infections in poultry.

Internal and external parasites are among the most common causes of diseases in animals, resulting in costly damage to the animal if not treated properly. We provide a wide range of products to counter parasites including AUTOWORM™ Pulse Release Bolus (also sold as REPIDOSE in Europe), which uses an innovative delivery system to rid cattle of gastrointestinal worms. Equally innovative is our DEFEND®/EXspot® product, a unique patented insecticide for dogs. The DEFEND® product line also includes house and premise insecticides. Cattle and sheep producers in Australia, Europe and Latin America rely on products such as TRIATOX™, SPOT-ON™ and GRENADE™ to control troublesome tick, fly, mange, lice and flea problems.



FEED INGREDIENTS — Our company's feed ingredients provide the widest range of mineral ingredient prod-

ucts available to the feed industry. Feed ingredients help animals build skeleton and teeth, as well as promote efficient growth and reproduction. Among our best selling products are BIOFOS®, MULTIFOS®, MONOFOS®, DYNAMATE®, DYNAFOS® and DYNA-K®.



VETERINARY SPECIALTIES AND OTHERS — We provide veterinarians with surgical products needed to treat

animals in their care. Products range from anesthetics such as METOFANE® and RAPINOVET™ to ETHICON, Inc. wound closure products. HIBITANE™, HIBITEX™ and COOPERCARE™ are among the best known hygiene products available.

SALES, MARKETING AND PROFESSIONAL SERVICES

We have marketing and sales offices located throughout the world. If you would like more information about the company please contact the office closest to you.



GLOBAL SALES

MARKETING OFFICES

NORTH AMERICA

Mundelein, Illinois
Corporate headquarters
Telephone: 708.949.3300
Millsboro, Delaware (Sterwin)
Telephone: 302.934.9274
Ajax, Ontario, Canada
Telephone: 416.427.0455

FEED INGREDIENTS

Mundelein, Illinois
Corporate headquarters
Telephone: 708.949.3300
Springdale, Arkansas
Telephone: 501.751.8950
Oakville, Ontario, Canada
Telephone: 905.338.9939

ASIA

Tokyo, Japan
Telephone: 03.3578.9491
Guangzhou, China
Telephone: 86.20.333.8999
extension 105
Jakarta, Indonesia
Telephone: 62.21.327.658
Seoul, Korea
Telephone: 02.567.2081
Petaling Jaya, Malaysia
Telephone: 603.755.6166
Parahque Metro Manila,
Philippines
Telephone: 63.2.828.9070
Rajburana, Bangkok, Thailand
Telephone: 66.2.420.3682
Kaohsiung City, Taiwan
Telephone: 886.7.732.1316
United Square, Singapore
Telephone: 65.256.5766

AUSTRALIA/NEW ZEALAND

North Ryde, Australia
Telephone: 61.2.335.4000
Upper Hutt, New Zealand
Telephone: 64.4.528.7139




EUROPE

Harefield, United Kingdom
Telephone: 44.895.626.000
Crewe, United Kingdom
Telephone: 44.270.580.131
Aalst, Belgium
Telephone: 32.53.786.373
Frederiksberg, Denmark
Telephone: 45.38.330.633
Turku, Finland
Telephone: 358.21.251.8131
Meaux Cedex, France
Telephone: 33.1.6009.8500
Burgwedel, Germany
Telephone: 49.5139.9970
Athens, Greece
Telephone: 30.1.959.9223
DA Houten, The Netherlands
Telephone: 31.3403.40405
Bray, Ireland
Telephone: 3531.2828.201
Verona, Italy
Telephone: 39.45.820.0020
Oslo, Norway
Telephone: 47.2256.6570
Lisbon, Portugal
Telephone: 351.1.848.6072
Vigo (Pontevedra), Spain
Telephone: 34.86.432.875

SOUTH AMERICA

Buenos Aires, Argentina
Telephone: 54.1.311.5240
Sao Paulo, Brazil
Telephone: 55.11.492.3155
Cali, Colombia
Telephone: 57.23.644.281
San Juan, Puerto Rico
Telephone: 809.788.2200.2217
San Jose, Costa Rica
Telephone: 506.210.298
Guadalajara, Mexico
Telephone: 52.3.627.0440
Asuncion, Paraguay
Telephone: 595.21.294.240
Montevideo, Uruguay
Telephone: 598.2.237.191
Valencia, Venezuela
Telephone: 58.41.34.1735

 Pitman-Moore



The best-fed animals eat these CSC feed ingredients

ANTIBIOTIC SUPPLEMENTS

BACIFERM® 10—Antibiotic feed supplement containing 10 grams per lb. of zinc bacitracin in a pure culture fermentation base. Zinc bacitracin, the standard of antibiotic stability, is highly effective for disease prevention and control, and for growth stimulation. Available in 50-lb. multiwall bags.

BACIFERM® 25—contains 25 grams of zinc bacitracin per pound.

BACIFERM® 40—contains 40 grams of zinc bacitracin per pound.

BACIFERM® PB-10—contains 7.5 grams of zinc bacitracin and 2.5 grams of penicillin (Master Standard) per lb.

BACIFERM® PB-25—Antibiotic feed supplement containing 18.75 grams of zinc bacitracin and 6.25 grams of penicillin (Master Standard) in a pure culture fermentation base. Available in 50-lb. bags.

CHOLINE CHLORIDE SUPPLEMENTS

CHOLINE SUPPLEMENT-25—Free-flowing feed supplement guaranteed to contain 25% choline chloride on an all-feed carrier. Available in 50-lb. multiwall bags.

CHOLINE SUPPLEMENT-37½—Free-flowing feed supplement guaranteed to contain 37½% choline chloride on an all-feed carrier. Available in 50-lb. multiwall bags.

CHOLINE SUPPLEMENT-44—Free-flowing feed supplement guaranteed to contain 44% choline chloride on an all-feed carrier. Available in 50-lb. multiwall bags.

CHOLINE SUPPLEMENT-50—Free-flowing supplement guaranteed to contain 50% choline chloride on an all-feed carrier. Available in 50-lb. multiwall bags.

CHOLINE CHLORIDE 70% AQUEOUS—Contains 70% choline chloride by weight in water solution. Available in bulk or in 54-gallon steel drums.

VITAMIN A SUPPLEMENTS

PERMA-DUAL® A—All-trans-vitamin A palmitate encapsulated in gelatin for maximum stability with maximum biological availability. Particle size assures excellent dispersion. Available in the following potencies in 100-lb. fiber drums or 50-lb. multiwall bags:

Perma-Dual 30A (30,000 USP units per gram)

Perma-Dual 250A . . . (250,000 USP units per gram)

Perma-Dual 325A . . . (325,000 USP units per gram)

Custom potencies available upon request.

PERMA-SOL®—Water dispersible all-trans-vitamin A palmitate, specially prepared for maximum stability and solubility. Available in the following potencies, packed in 100-lb. fiber drums:

Perma-Sol 30A (30,000 USP units per gram)

Perma-Sol 100A (100,000 USP units per gram)

Perma-Sol 325A . . . (325,000 USP units per gram)

VITAMIN A & D SUPPLEMENTS

PERMA-DUAL® A & D₃—Vitamins A & D feed supplement containing all-trans-vitamin A palmitate encapsulated in gelatin with Vitamin D-3 in convenient ratios. Supplied in 50-lb. multiwall bags or 100-lb. fiber drums in the following potencies:

Perma-Dual 30A/30D₃ . . . (30,000 USP units of Vitamin A and 30,000 USP units of Vitamin D₃ per gram)

Perma-Dual 45A/22.5D₃ . . (45,000 USP units of Vitamin A and 22,500 USP units of Vitamin D₃ per gram)

Perma-Dual 325A/325D₃ . . (325,000 USP units of Vitamin A and 325,000 USP units of Vitamin D₃ per gram)

Custom potencies available upon request.

CONTINUED →



VITAMIN A, D & E SUPPLEMENTS

PERMA-DUAL® A, D & E—Vitamin feed supplements custom-blended to your specifications, using Perma-Dual A, Perma D₃ and Perma E as ingredients.

VITAMIN D SUPPLEMENTS

PERMA D₂®—Vitamin D₂ feed supplements. Free-flowing and compounded with antioxidants for maximum stability and complete dispersion. Available in 50-lb. multiwall bags and 100-lb. fiber drums in the following potencies:

Perma D 16 D₂ (16,000,000 USP units per lb.)

Perma D 64 D₂ (64,000,000 USP units per lb.)

Perma D 75 D₂ (75,000,000 USP units per lb.)

Custom potencies available upon request.

PERMA D₃®—Vitamin D₃ feed supplements. Free-flowing and compounded with antioxidants for maximum stability and complete dispersion. Available in 50-lb. multiwall bags and 100-lb. fiber drums in the following potencies:

Perma D 150 D₃ (150,000 USP units per gram)

Perma D 200 D₃ (200,000 USP units per gram)

Custom potencies available upon request.

VITAMIN E SUPPLEMENTS

PERMA E®—Vitamin E feed supplements containing dl alpha tocopheryl acetate encapsulated in gelatin. Particle size gives maximum mixing efficiency. Available in the following potencies in 50-lb. multiwall bags and 100-lb. fiber drums.

Perma E 20 E (20,000 USP units per lb.)

Perma E 125 E (125,000 USP units per lb.)

Custom potencies available upon request.

FLAVOR SUPPLEMENT

CSC/MSG—Monosodium Glutamate feed supplement increases acceptability of baby pig rations. Special small crystal size is available in 100-lb. fiber drums or 50-lb. bags.

VITAMIN B₁₂ SUPPLEMENTS

PROFORM® 20—Vitamin B₁₂ supplement from a pure culture fermentation. 20 milligrams of Vitamin B₁₂ activity per lb. are guaranteed. Free-flowing, stable, and easily mixed. Available in 50-lb. bags.

PROFORM® 24—Vitamin B₁₂ supplement from a pure culture fermentation. Guaranteed to contain 24 milligrams of Vitamin B₁₂ activity per lb. Available in 50-lb. bags.

PROFORM® 60—Vitamin B₁₂ supplement from a pure culture fermentation. Guaranteed to contain 60 milligrams of Vitamin B₁₂ activity per lb. Available in 50-lb. bags.

RIBOFLAVIN SUPPLEMENTS

B·Y® 16—Riboflavin feed supplement. A fermentation product. Guaranteed riboflavin potency—16,000 milligrams or 16 grams per lb. 50-lb. bags.

B·Y® 24—Riboflavin feed supplement. A fermentation product. Guaranteed riboflavin potency—24,000 milligrams or 24 grams per lb. Ideal for use in the manufacture of concentrates. 50-lb. bags.

B·Y® 60—Riboflavin feed supplement. Guaranteed riboflavin potency—60,000 milligrams or 60 grams per lb. Ideal for use in the manufacture of concentrates. 50-lb. bags.

VITAMIN PREMIXES

PERMA-MIX®—Highest quality vitamin, mineral and antibiotic mixes, carefully blended and packaged to your specifications. Commercial Solvents Corporation is a basic manufacturer of the major premix components, assuring you of built-in quality control from the ground up.

Animal Nutrition Sales Department

COMMERCIAL SOLVENTS CORPORATION

NEW YORK, N.Y., 260 Madison Ave.—Telephone (212) LE 2-6420

TERRE HAUTE, IND., 1331 So. 1st St.—Telephone (812) C-0121

AGNEW, CALIF., Mail to P. O. Box 151, San Jose—Telephone (408) 262-2474



We invite you to take a close look at an enterprise designed expressly to produce value for its owners.

International Minerals & Chemical Corporation (IMC) has undergone a transformation.

From one of the world's leading producers of minerals and chemicals... to an active builder of technology businesses. Our strategy is to invest in businesses that possess significant potential and capable management, then to work with the management to deliver that potential. Today we are developing three such businesses—Mallinckrodt Medical, Mallinckrodt Specialty Chemicals and Pitman-Moore. Together, we are launching an exciting new era.



For the 3,400 people

of St. Louis-based

Mallinckrodt Medical,

ALLINCKRODT

EDICAL *serves doctors, nurses and other*

innovation is essential. The

company offers radiologists,

cardiologists, anesthesiologists,

critical care specialists and

nuclear physicians a large

portfolio of technically

sophisticated products that

help them improve health

care. With its strong market

positions and long history of

quality products and services,

Mallinckrodt Medical

anticipates sales of nearly

\$800 million by 1994.

health care providers in over 100 countries and more than 7,000 U.S. medical facilities.



Also headquartered in

St. Louis, its 2,200

employees around the

world manufacture a wide

range of materials that

enhance the quality and

efficiency of customers'

products. Mallinckrodt

Specialty Chemicals' pri-

mary long-term strategy is

to strengthen its worldwide

leadership positions in

high value-added market

niches. Based on current

operations, 1994 worldwide

sales should approach

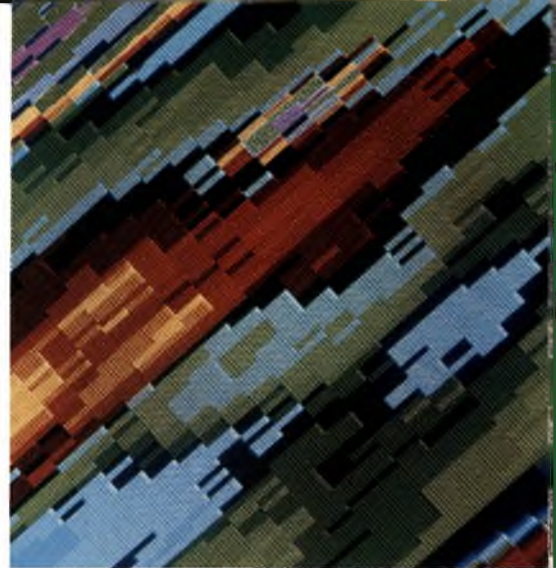
\$600 million.

MALLINCKRODT

SPECIALTY

CHEMICALS is a manufacturer of drugs

g and cosmetic chemicals, catalyst and performance chemicals, science products and flavors.





Headquartered in **PITMAN - MOORE** *is one of the world's largest companies devoted solely*

Lake Forest, Illinois,

Pitman-Moore

employs 3,600 people and

markets some 1,000 products

in 80 countries. Customer

service and new product

development are keys to con-

tinued success. Pitman-Moore

supplements its extensive

R&D programs through

technical agreements with

leading health care and

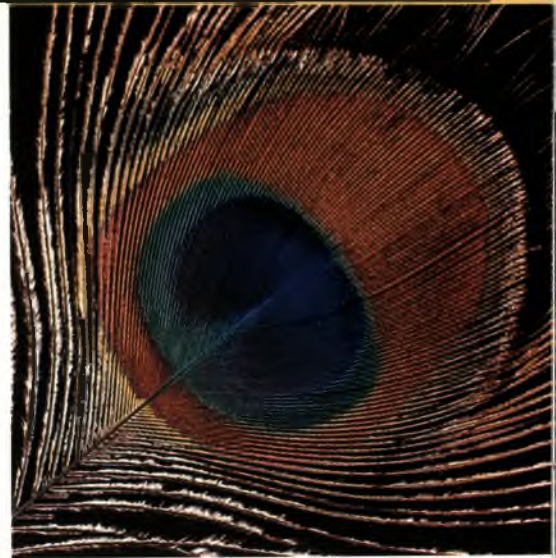
biotechnology companies.

More than 36 new products in

development will help sales

reach \$900 million by 1994.

o the health and productivity of livestock, poultry and companion animals.



Y

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a leading supplier of
mineral and chemical
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We're an active builder of
technology businesses which
aim, above all, to produce
value for our shareholders,
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IMCERA



Corporate Data

Corporate Headquarters

IMCERA Group Inc.
2315 Sanders Road
Northbrook, Illinois 60062
(708) 564-8600

Stock Exchanges

New York, Midwest,
Pacific and Paris.

U.S. Ticker Symbol: IMA.

The Company's daily trading
activity and common stock
price can be found in the
financial sections of most
major newspapers under
"IMCERA."

Annual Report and Form 10-K

The Company's Annual Report
and Form 10-K are available
without charge by writing to
IMCERA Corporate
Communications,

2315 Sanders Road,
Northbrook, Illinois 60062.

Investor Contact

Elizabeth M. Higashi
(708) 205-2189

Media Contact

David A. Prichard
(708) 205-2270

Operating Company

Pitman-Moore

IMCERA 1990 Estimated

Headquarters

One Conway Park

Total Net Sales: \$1.39 Billion

Mallinckrodt Medical

100 Field Drive

675 McDonnell Boulevard

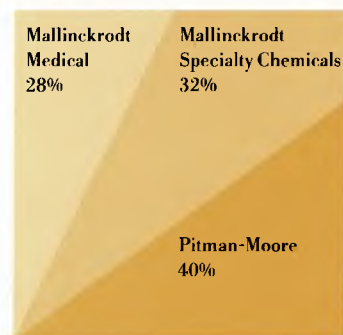
Lake Forest, Illinois 60045

P.O. Box 5840

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St. Louis, Missouri 63134

(314) 895-2000



Mallinckrodt Specialty

Chemicals

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